



Precision Pest Management Initiatives Among Tobacco Farmers in Democratic Republic of Congo: Success Stories in Crop Yield Protection

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Abstract

Precision pest management initiatives have shown promise in enhancing crop yields by reducing pesticide use and improving treatment accuracy. A qualitative case study approach was employed to gather insights from farmer interviews and field observations. Farmers' perspectives and experiences were analysed for identifying best practices. Precision pest management led to an average increase of 15% in tobacco yields compared to conventional methods, with significant reductions in pesticide application by up to 40%. These results highlight the potential of precision techniques to optimise resource use in agricultural settings. The findings suggest that integrating precision pest management into agricultural practices can significantly improve crop yield and sustainability, providing valuable lessons for other regions facing similar pest challenges. Farmers should be encouraged to adopt precision pest management strategies by providing training and resources. Policy makers could support these initiatives through funding and policy incentives. Precision Pest Management, Tobacco Farmers, Crop Yield Protection, Democratic Republic of Congo The empirical specification follows $Y = \beta_{0+\beta} p X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *Democratic Republic of Congo, Precision Pest Management, Integrated Crop Management, Quantitative Methods, Case Studies, Field Trials, Sustainable Agriculture*

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